## UNITED STATES TO LEAD The WORLD CMFURS

MERICA is to lead the world in furs! Henceforth the United States is to dye, dress and sell her own sealskins, and with-in her own borders. A factory is now being built for this purpose in St. Louis, Mo., which expects to be in operation within a month with experts and a trained staff of operatives.

Once this brand-new industry is fairlaunched. St. Louis may proudly claim the distinction of being the center of the fur trade of the world. Almarkets, circumstances arising from place the crown of fur leadership upon the brow of that city, with a yearly value that promises ten to twelve mil-

Soon the lordly sealskins, whose prohibitive cost has kept them away above the reach of the ordinary purse, even when the Christmas spirit pulls the strings wide apart, must perforce descend from their dizzy heights as fortune's favored tag, the label of wealth and affluence, and be found upon the gift list of the many instead of the favored few.

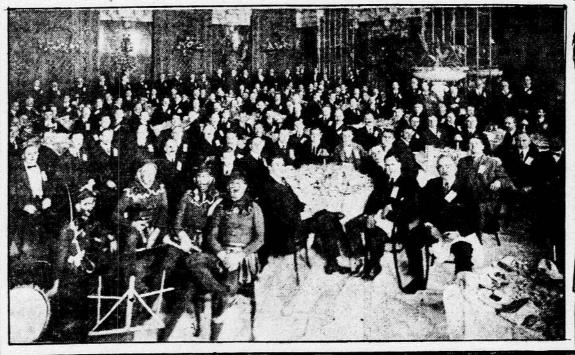
Because of the increase of population that has steadily pioneered into the remotest wooded wildernesses of the country, encroaching more and

further and arther into the uninhabit-ed versions of the north and have re-doubled their efforts to increase their yearly collection of pelts it has been long since the supply met the demand, and the result has been that many inskins have been used as sub-

The fact that the natural moduction of first-class furs was in danger of exhaustion has caused the covernment to take drastic measures to conserve its seals and to go into fur farming upon an extensive scale as soon as it was demonstrated that various animals could be sufficiently domesticated for this purpose. This has now assumed the proportions of a vest industry that is worth millions of dollars annually to the government, as was

Fox farming, by the way, is merely incidental to the main fur industry fostered by the government, which is skins which brought \$892.50, were con-

EIGHT TIME PAIR OF SILVER FOXES; THE ONES MARKED(X) BROUGHT 2610. AT GOVERNMENT AUCTION SALE @FUNSTON BROS. CO.



SIXTHANNUAL BANQUET OF THE ST LOUIS FUR TRADE IN HONOR OF THE VISITING BUYERS TO THE PUBLIC AUCTION



J.S. GOVERNMENTE · · · BLUE AND WHITE FOXES; GRADED AND BUNDLED, READY TO SHOW TO BUYERS

Hugh M. Smith, director of the bureau

This is done at this particular time in order to prevent the deterioration of about 8,000 sealskins which the government now has in cold storage for safe keeping.

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Concerning this new venture, to which such impetus has been given, Dr. Hugh M. Smith, director of the bureau

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Conserving the deterioration of than had been secured abroad; the government thus got more for its furs and the process of selling cost less, and the process of selling cost less.

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Most surprising of all of the data to be had on the subject of fur farming, fur buying, etc., is that which concerns fur selections. For it would indeed be a subject of fur farming, fur buying, etc., is that which concerns fur selections. For it would indeed be a subject of fur farming, fur buying, etc., is that which concerns fur selections.

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closed season for the purpose of building up the depleted seal herd was covered by an act of Congress, and this, in turn, was abolished by the treaty in December of 1911, the parties to which were the United States. Great Britain, Russia and Japan, the only countries engaged in the sealing industry. By the terms of this treaty the United States, in return for the stopping of all sea sealing, is to have entire control of the land sealing and to pay to Great Britain and Japan 15 per cent each of the total skins taken. It is expected that killing of the seal herd will shortly be resumed. The two large islands have been the stopping places of large packs of foxes which live part of the year on the great number of eggs and birds that swarm over them in the nesting season. The balance of the year they have subsisted on the remains of the slaughtered seals that were killed for their hides. Thus, in great measure, the fox herd has been closely associated with and in some respects dependent upon the sealing, and during the closed season it suffered considerably. It is believed that when the killing of the seals is resumed the fox packs may be increased materially.

Fur farming came about through the scarcity of the first-class fur-bearing animals, and the blue fox was the first animal to be scientifically reared in

Fur farming came about through the scarcity of the first-class fur-bearing animals, and the blue fox was the first animal to be scientifically reared in this way. The results of the first experiments were a universal surprise, for finer skins were obtained from the captive bred than have ever been caught in the remotest wilderness. The reason for this is that the fur of the blue fox or arctic fox reaches perfection in the winter time, when it is the longest. The wild animal frequently spoils his beautiful coat by his thought-less habit of basking in the sun. While the sun does not hurt his fur, the warmth of his body melts the ice, which speedily freezes again and incloses the speedily freezes again and incloses the tips of the longest of his hairs. When the rises these are pulled out and left behind. But when these animals are kept within the inclosures provided for them on the fur farms, it is said that they do not thus lose their hairs.

by the Department of Agriculture, the name "silver fox" as ordinarily used by furriers includes the dark phases of the gray, silver black or black. The marof the animal. The beauty and scarcity of the animal. The beauty and ecarcity of the silver fox have made it the most valuable of fur animals.

The silver fox was at first success-

The silver fox was at first successfully domesticated in 1894 on Prince Edward Island. In 1910 the pelts from ranch-reared foxes brought higher prices than those of the wild animals, the average being over \$1,300 each.

The rates for live animals for the stock farms soared into prohibitive figures, but the European war has brought them down considerably. The high values placed upon these animals have resulted in a close study of them in the different stages of domestication, which has disclosed facts of great value in fox farming.

A fox ranch should be situated where it will have good drainage and be

A fox ranch should be situated where it will have good drainage and be shaded in part by trees. Each pair of foxes should have a runway of about 2,500 square feet. They thrive on a diet that is varied, including meat, fish, bread, mush, milk, etc. The reprobread, mush, milk, etc. The repro-ductive period is about ten years and the average litter contains four cubs. They bear their captivity well and are

net difficult to care for.

Because of the exceedingly high value set upon silver foxes, many precautions are taken to avoid their loss. On some of the larger, more prosperous farms the and burgiar alarms. Cats are kept on hand to act as foster-mothers to orphan cubs. Fox hounds are trained to overtake and hold, without injuring them, any runaway foxes that have escaped, and bloodhounds are employed to track

by which it is made to masquerade.

Much red fox goes to big stores as black fox, and all of the other fur-coated

## Extraordinary Features of "Keeping House" for Thousands of Bacteria

M ISS AGNES QUIRK of the Department of Agriculture Has Some Exacting Duties, But She Does Not "Keep" the Ordinary Sort of House-Feeding Bacteria a Painstaking Task-The Important Media-Scientific Dishwashing-Her Methods Explained-Bacterial Diseases of Plants Studied.

OW would you like to be such an exacting housekeeper that you would wash your dishes twice and rinse them in distilled water, use glass cooking utensils because they may be kept cleaner than any others; measure all of the introduced account of all your cooking so that you could tell without fall how many ounces of heat or drops of water were put into yesterdays beef bouillon?

On the face of it this seems so bothers and the patience to keep house in such a way. Yet Miss Agnes Quirk of the Department of Agriculture follows a procedure of this kind every day in the painstaking manner that it requires, and thinks little about its extraordinary features.

As scientific housekeeper par excellence of the National Capital, Miss Quirk is not file laboratory of plant pathology, and it is her duly to supply the follows and agar are but three of a number of the laboratory of plant pathology, and it is her duly to supply the follows and agar are a few of the thouse weeps and said are employed it is necessary that the exact, 3,560 test tubes full are needed of the culture media.

The appearance of these brilliant media are employed it is necessary that miss there exployed it is necessary that the exact, 3,560 test tubes a full are needed of the culture media.

The appearance of these brilliant media are employed it is necessary that the workroom is a combination scultery, kitchen, pantry, stock cupboard and apothecary shop. Here, in her double capacity of chief cook and head another, in the pathological establishment, she follows scrupulously the distribution of the counter media.

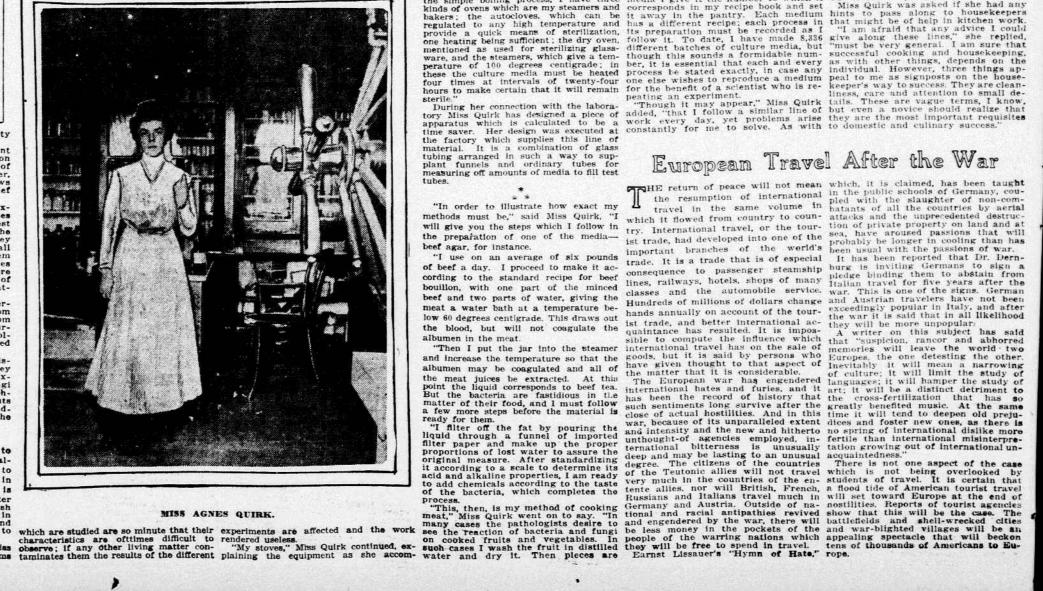
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lence of the National Capital, Miss Quirk has charge, under Dr. Erwin P. Smith of the commissary department, of the laboratory of plant pathology, and it is her duty to supply the food material for the bacteria which this laboratory studies. She has three assistants, who aid her in running her kitchen; nevertheless she personally buys all of the cooking materials and prepares air of the bacterial mediaas this kind of foodstuff is scientifically called.

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Bacterial diseases of plants are studied in the laboratory of plant pathology, and all sorts of experiments are made in each of the individual cases to determine the nature of the organisms which cause the disease. For this reason, an enormous amount of bacterial media is used by

carded by the pathologists after they have served their purpose in the ex-periments with the bacteria and fungi



panied the interviewer through her kitchen, "are a bit unusual. In addition to the Bunsen burners, which correspond to any ordinary flame, and which I use for the simple boiling process, I have three kinds of ovens which are my steamers and bakers: the autocloves, which can be regulated to any high temperature and provide a quick means of sterilization, one heating being sufficient; the dry oven, mentioned as used for sterilizing glassware, and the steamers, which give a temperature of 100 degrees centigrade; in these the culture media must be heated four times at intervals of twenty-four hours to make certain that it will remain sterile."

During her connection with the laboratory Miss Quirk has designed a piece of apparatus which is calculated to be a time saver. Her design was executed at the factory which supplies this line of material. It is a combination of glass tubing arranged in such a way to supplant funnels and ordinary tubes for measuring off amounts of media to fill test tubes.

Placed in the test tubes; these are every other housekeeper, I find that sterilized and plueged and may be kept in an entitient.

"After I have checked up the different which it is not book and save in the different book and sterilized and plueged and may be kept in an entitient.

"To date, I have made \$,335 (low to the right way and better methods of culture media in this to pass along to housekeepers that the pantry. Each medium hints to pass along to housekeepers that though this sounds a formidable number of voltage and may be kept in an entity of the different hetelose and process in the test tubes; these are every obtained as I find that two ways exist for doing and better methods of the low-checked up the different becked up the highest form of an an index process in the test tubes; the different hecked up the fill the pantry. Each media as I fill the pan

TOHE return of peace will not mean which, it is claimed, has been taught